JBK3 / JBK5 Machine Tool Control Transformers

NewTrend | Technical reference | 40–2500 VA

Control power, local lighting and indicator circuits for industrial machinery. Application range: 50–60 Hz AC circuits up to 660 V. The standard primary configurations and secondary voltage options are given below.

Primary and secondary voltages

Specifications	Primary voltage(V)	Secondary voltage(V)		
		Control	Lighting	Indicator signal
40VA	380, 220 or 380(220)	110(27)(220) (48)	24(36)	6(12)
63VA				
100VA				
160VA				
250VA				
400VA				
630VA				
1000VA				
1600VA				
2000VA				
2500VA				

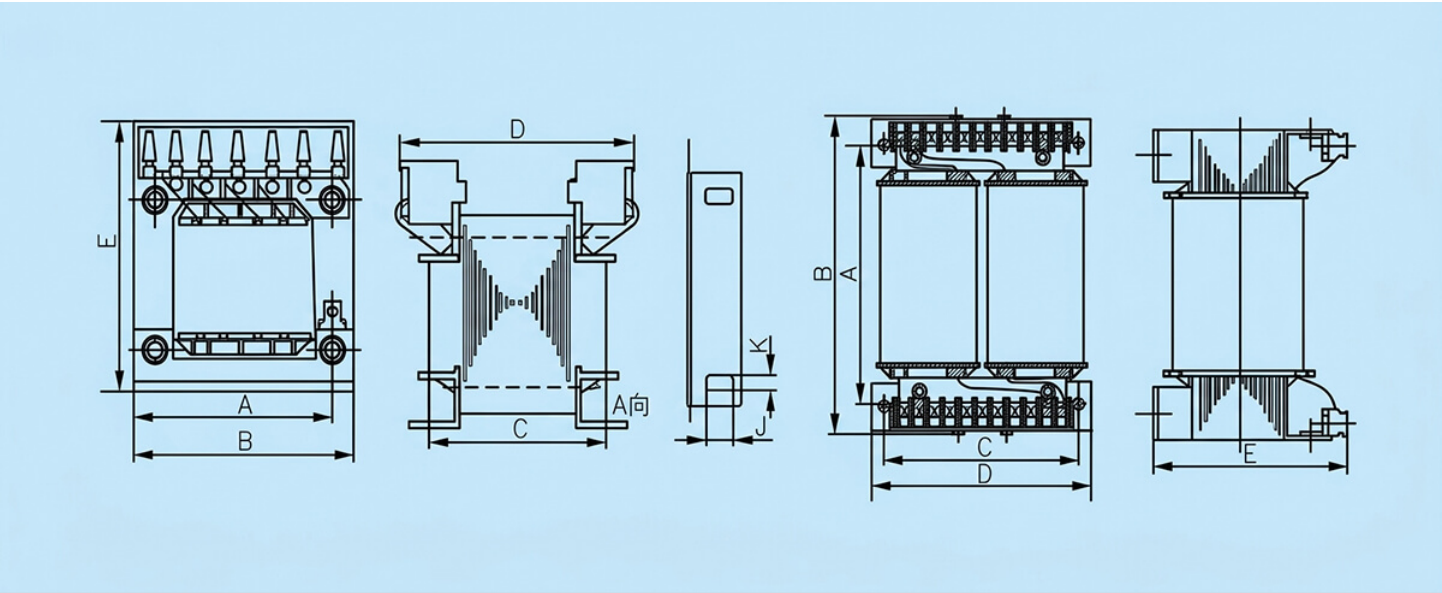
Model example: JBK3-100 identifies design 3 and rated capacity of 100 VA. JBK5 identifies design 5. Confirm the winding allocation and voltage combination for the selected model.

Winding capacity distribution (VA)

Capacity (VA)	Capacity distribution of each winding(VA)			Capacity (VA)	Capacity distribution of each winding(VA)		
	Control	Lighting	Indication		Control	Lighting	Indication
40	40			400	400		
		40			390		10
	37		3		320	80	
					310	80	10
63	63			630	630		
		60	3		610		20
	20	40	3		510	120	
	60		3		490	120	20
100	100			100	1000		
		100			980		20
		90	10		880	120	
	90		10		860	120	20
	40	60					
	50	40	10				
160	160			1600	1600		
	90	60	10		1580		20
	100	60			1400	200	
	150		10		1380	200	20
250	250			2000	2000		
	240		10		1980		20
	170	80			1800	200	
	160	80	10		1780	200	20

The original right-hand capacity label above the 1000 VA allocation reads 100. Verify the allocation before selection.

Outline and mounting dimensions



Rated capacity(VA)	Outline size(mm)					Mounting hole J × K(mm)
	B max	D max	E max	A	C	
40	79	73	92	66	47	5 × 9
63	79	73	92	66	47	5 × 9
100	85	89	97	72	64	5 × 9
160	97	91	105	84	73.5	7 × 14
250	97	105	105	84	85	7 × 14
400	121	103	122	100	85	6 × 10
630	151	111	143	133	90	6 × 10
1000	215	170	150	142	160	8 × 14
1600	245	185	155	155	180	8 × 14
2000	275	210	175	175	210	8 × 14

Mounting dimensions are published through 2000 VA. Confirm dimensions for 2500 VA.

Source: Manufacturer product reference